

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>4</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD0150_01_s_2013_4				
Comment Code					
Inspector Comment					
This LMA has the updated O&M manuals for their district.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>5</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD0150_01_s_2013_5				
Comment Code					
Inspector Comment					
This LMA has adequate amount of flood fighting materials in a centralized location.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>6</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD0150_01_s_2013_6				
Comment Code					
Inspector Comment					
The crew of this LMA had flood fighting training from DWR.					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/09/2018 11/09/2018	Luz Dial

LM Start	0.00	Rating **	A	Issue No.	1
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.332642 °	38.328362 °
				-121.583471 °	-121.576783 °
DWR ID	DWR_RD0150_01_f_2018_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is maintained.					

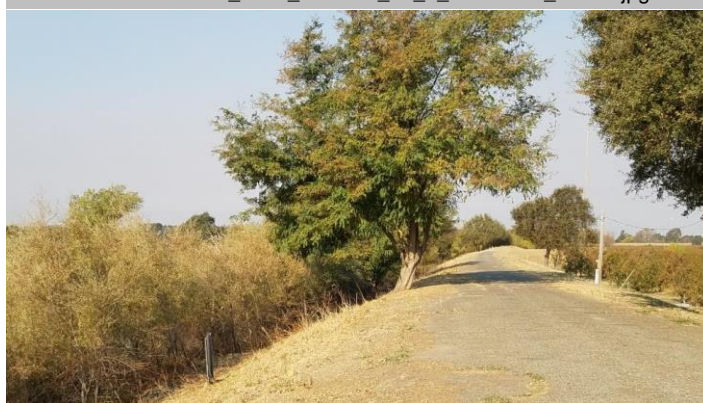
Photo 1 of 1 : FA\_2018\_RD0150\_15\_1\_20181115\_00002.jpg



View of landside vegetation. Fall 2018

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.332642 °	38.328362 °
				-121.583471 °	-121.576783 °
DWR ID	DWR_RD0150_01_f_2018_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is maintained.					

Photo 1 of 1 : FA\_2018\_RD0150\_15\_2\_20181115\_00001.jpg



View of waterside vegetation. Fall 2018

LM Start	0.49	Rating **	M	Issue No.	3
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.328242 °	38.328242 °
				-121.576573 °	-121.576573 °
DWR ID	DWR_RD0150_01_f_2018_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Backfill rodent holes.					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.11	Rating **	A/W	Issue No.	46
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.329369 °	38.329767 °
				-121.574936 °	-121.574589 °
DWR ID	DWR_RD0150_02_f_2017_46				
Comment Code					

**Comment Code**

**Inspector Comment**

**Levee Evaluation Comments**

Description: The flood damage consists of a waterside erosion approximately 185 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.

Site ID No: 286

Site Designation: LMA-112

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/17/2017

Notes: Crown is a paved road. Scarps upto 3 ft deep, not fully vertical though. Area of concern because erosion is not very deep into prism.

Photo 1 of 3 : LEVAL\_FA\_2018\_286\_1942.jpg



Photo 2 of 3 : LEVAL\_FA\_2018\_286\_2138.jpg



LM Start	<b>0.11</b>	Rating **	A/W	Issue No.	<b>46 (cont)</b>
LM End	<b>0.14</b>	Issue Type +	Ma	Location *	WS

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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Levee Inspections**

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**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.11	Rating **	A/W	Issue No.	46 (cont)	
LM End	0.14	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.329369 °	38.329767 °	
				-121.574936 °	-121.574589 °	
DWR ID	DWR_RD0150_02_f_2017_46					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description: The flood damage consists of a waterside erosion approximately 185 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.						
Site ID No: 286						
Site Designation: LMA-112						
Repair Type: Erosion						
Rating: Area of Concern						
Field Date: 7/17/2017						
Notes: Crown is a paved road. Scarps upto 3 ft deep, not fully vertical though. Area of concern because erosion is not very deep into prism.						

Photo 3 of 3 : LEVAL\_FA\_2018\_286\_2140.jpg



LM Start	0.36	Rating **	M	Issue No.	103
LM End	0.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.332452 °	38.332452 °
				-121.572378 °	-121.572378 °
DWR ID	DWR_RD0150_02_s_2018_103				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.38	Rating **	M	Issue No.	6
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.332598°	38.332598°
				-121.572179°	-121.572179°
DWR ID	DWR_RD0150_02_s_2012_6				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					



View of slope instability around stairway. Fall 2018

LM Start	<b>0.38</b>	Rating **	M	Issue No.	<b>6 (cont)</b>
LM End	<b>0.38</b>	Issue Type +	Ma	Location *	WS



View of slope instability on the waterside of the levee. Fall 2016

LM Start	0.54	Rating **	N	Issue No.	66
LM End	0.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.334387°	38.334387°
				-121.570355°	-121.570355°
DWR ID	DWR_RD0150_02_f_2016_66				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>0.59</b>	Rating **	M	Issue No.	<b>45</b>							
LM End	<b>0.59</b>	Issue Type +	Ma	Location *	WS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Slope Stability		38.334898°	38.334898°								
			-121.569632°	-121.569632°								
DWR ID	DWR_RD0150_02_f_2018_45											
Comment Code												
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.												
Inspector Comment												

Photo 1 of 1 : FA\_2018\_RD0150\_16\_45\_20181115\_00138.jpg



View of slope damage likely from vehicle traffic. Fall 2018

LM Start	<b>0.71</b>	Rating **	C	Issue No.	<b>10</b>							
LM End	<b>0.71</b>	Issue Type +	Ma	Location *	WS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Encroachments		38.336228°	38.336228°								
			-121.568332°	-121.568332°								
DWR ID	DWR_RD0150_02_s_2013_10											
Comment Code												
DE : Debris												
Inspector Comment												

No Photos

LM Start	<b>0.71</b>	Rating **	M	Issue No.	<b>59</b>							
LM End	<b>0.71</b>	Issue Type +	Ma	Location *	LS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Encroachments		38.336291°	38.336291°								
			-121.568260°	-121.568260°								
DWR ID	DWR_RD0150_02_s_2016_59											
Comment Code												
TR : Tree or limb												
Inspector Comment												
Damaged tree roots and trunks appear to damage landside slope of the levee and need to be removed.												

Photo 1 of 2 : FA\_2018\_RD0150\_16\_59\_20180910\_00040.jpg



View of the tree trunk on the landside of the levee. Fall 2017

**\* Location**

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CR : Crown

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M : Minimally Acceptable        C : Corrected  
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**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



# Reclamation District No. 0150 Merrit Island

View of the tree limbs and roots on the landside of the levee looking downstream. Fall 2016

View of fallen tree on landside levee slope. Fall 2018

View of a tree stump on the landward slope.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>1.46</b>	Rating **	C	Issue No.	<b>96</b>
LM End	<b>1.46</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.344207°	38.344207°
				-121.559072°	-121.559072°
DWR ID	DWR_RD0150_02_s_2018_96				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>1.80</b>	Rating **	M	Issue No.	<b>30</b>
LM End	<b>2.02</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.345937°	38.346786°
				-121.553190°	-121.549332°
DWR ID	DWR_RD0150_02_f_2018_30				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	<b>1.81</b>	Rating **	C	Issue No.	<b>101</b>
LM End	<b>1.81</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.345983°	38.345983°
				-121.553075°	-121.553075°
DWR ID	DWR_RD0150_02_s_2018_101				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
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**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	2.10	Rating **	M	Issue No.	63
LM End	2.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.347002°	38.347002°
				-121.547803°	-121.547803°
DWR ID	DWR_RD0150_02_f_2016_63				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0150\_16\_63\_20180910\_00043.jpg



View of a tree trunk on the landside slope of the levee. Spring 2017

LM Start	2.14	Rating **	C	Issue No.	68
LM End	2.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.347083 °	38.347083 °
				-121.547063 °	-121.547063 °
DWR ID	DWR_RD0150_02_f_2017_68				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	2.75	Rating **	N	Issue No.	14
LM End	2.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.350041 °	38.350041 °
				-121.536853 °	-121.536853 °
DWR ID	DWR_RD0150_02_s_2012_14				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0150\_16\_14\_20180910\_00009.jpg



View of a tree stump on the landward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
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**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.24	Rating **	M	Issue No.	961
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 1 of 5 : FA\_2018\_RD0150\_16\_961\_20180910\_00065.jpg



View of the erosion on the waterside of the levee during spring 2015 inspection.

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 5 : FA\_2018\_RD0150\_16\_961\_20180910\_00066.jpg



View of the erosion on the waterside slope of the levee near the pipe looking downstream. This picture was taken during the fall 2013 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 3 of 5 : FA\_2018\_RD0150\_16\_961\_20180910\_00067.jpg



View of the erosion on the waterside slope of the levee looking upstream during spring 2013 inspection.

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 5 : FA\_2018\_RD0150\_16\_961\_20180910\_00068.jpg



View of erosion and damaged pipe and abandoned boat on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 5 of 5 : FA\_2018\_RD0150\_16\_961\_20180910\_00069.jpg



View of the erosion site, and broken pump support along with a boat on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2011 inspection.

LM Start	3.30	Rating **	M	Issue No.	17
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.355979 °	38.355979 °
				-121.530288 °	-121.530288 °
DWR ID	DWR_RD0150_02_s_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry is partially blocking visibility.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.42	Rating **	A/W	Issue No.	47
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.357183 °	38.357631 °
				-121.528547 °	-121.527981 °
DWR ID	DWR_RD0150_02_f_2017_47				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 229 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:287					
Site Designation:LMA-113					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Crown is a paved road. Erosion scarps upto 10 ft deep and within 5 ft of crown. Worse conditions on the DS end. Exposed filter fabric. Serious because of depth of erosion into levee, weak soil, and proximity to crown which is a high traffic public road.					

Photo 1 of 3 : LEVAL\_FA\_2018\_287\_2143.jpg



LM Start	<b>3.42</b>	Rating **	A/W	Issue No.	<b>47 (cont)</b>
LM End	<b>3.46</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL\_FA\_2018\_287\_2146.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.42	Rating **	A/W	Issue No.	47 (cont)
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.357183 °	38.357631 °
				-121.528547 °	-121.527981 °
DWR ID	DWR_RD0150_02_f_2017_47				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 229 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:287					
Site Designation:LMA-113					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Crown is a paved road. Erosion scarps upto 10 ft deep and within 5 ft of crown. Worse conditions on the DS end. Exposed filter fabric. Serious because of depth of erosion into levee, weak soil, and proximity to crown which is a high traffic public road.					

Photo 3 of 3 : LEVAL\_FA\_2018\_287\_2149.jpg



LM Start	4.50	Rating **	U	Issue No.	44
LM End	4.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.370928 °	38.371909 °
				-121.523069 °	-121.523316 °
DWR ID	DWR_RD0150_02_f_2018_44				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 38.5 R Status: Critical 2017 Field Notes: New erosion pocket. Vertical section along lower bank, and cracking. Upgraded to critical. Site History: 1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013 - Tree at upstream end has exposed roots. Some new erosion.  Fall 2018 DWR Inspection: Erosion along lower bank and cracking not visible from levee crown due to vegetation.					

Photo 1 of 2 : FA\_2018\_RD0150\_16\_44\_20181115\_00139.jpg



View of waterside slope. Fall 2018

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	4.50	Rating **	U	Issue No.	44 (cont)	
LM End	4.57	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 USACE Erosion Survey, DRAFT			38.370928 °	38.371909 °	
				-121.523069 °	-121.523316 °	
DWR ID	DWR_RD0150_02_f_2018_44					
Comment Code						
Inspector Comment						
2017 Site ID: SAC 38.5 R						
Status: Critical						
2017 Field Notes: New erosion pocket. Vertical section along lower bank, and cracking. Upgraded to critical.						
Site History: 1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013 - Tree at upstream end has exposed roots. Some new erosion.						
Fall 2018 DWR Inspection: Erosion along lower bank and cracking not visible from levee crown due to vegetation.						

Photo 2 of 2 : FA\_2018\_RD0150\_16\_44\_20181115\_00140.jpg



View of waterside slope. Fall 2018

LM Start	4.59	Rating **	C	Issue No.	93
LM End	4.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.372160 °	38.372160 °
				-121.523701 °	-121.523701 °
DWR ID	DWR_RD0150_02_s_2018_93				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	4.69	Rating **	M	Issue No.	28
LM End	4.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.373485 °	38.373485 °
				-121.523963 °	-121.523963 °
DWR ID	DWR_RD0150_02_s _ 2012_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0150\_16\_28\_20180910\_00013.jpg



Century plant on waterward slope

LM Start	4.86	Rating **	C	Issue No.	90
LM End	4.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.375740 °	38.376181 °
				-121.525274 °	-121.525431 °
DWR ID	DWR_RD0150_02_s _ 2018_90				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement





**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	5.04	Rating **	A/W	Issue No.	50 (cont)
LM End	5.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage		38.378311 °	38.379458 °	
			-121.525317 °	-121.524931 °	
DWR ID	DWR_RD0150_02_f_2017_50				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 447 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:288					
Site Designation:LMA-114					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. Much of site was not accessible because of thorny veg. Scarps were only about 1 ft deep where it was accessible so rated it a lower priority. Irrigation pipe within the site. A boat view would be helpful here. Fall 2018 DWR Inspector: Erosion along bank not visible from levee crown.					

Photo 3 of 4 : LEVAL\_FA\_2018\_288\_2156.jpg



LM Start	<b>5.04</b>	Rating **	A/W	Issue No.	<b>50 (cont)</b>
LM End	<b>5.12</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : LEVAL\_FA\_2018\_288\_2157.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	5.20	Rating **	C	Issue No.	89
LM End	5.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.380544 °	38.380544 °
				-121.524587 °	-121.524587 °
DWR ID	DWR_RD0150_02_s _ 2018_89				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	5.24	Rating **	M	Issue No.	975
LM End	5.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.381126 °	38.381126 °
				-121.524207 °	-121.524207 °
DWR ID	DWR_RD0150_02_s _ 2013_975				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Depression on the waterward slope at the shoulder over an irrigation pipe.					

Photo 1 of 2 : FA\_2018\_RD0150\_16\_975\_20180910\_00070.jpg



View of minor slope instability on the waterside slope of the levee looking downstream during fall 2013 inspection.

LM Start	<b>5.24</b>	Rating **	M	Issue No.	<b>975 (cont)</b>
LM End	<b>5.24</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2018\_RD0150\_16\_975\_20180910\_00071.jpg



View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>5.27</b>	Rating **	C	Issue No.	<b>87</b>
LM End	<b>5.27</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.381524 °	38.381524 °	
			-121.523883 °	-121.523883 °	
DWR ID	DWR_RD0150_02_s_2018_87				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	<b>5.29</b>	Rating **	M	Issue No.	<b>109</b>
LM End	<b>5.29</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.381660 °	38.381660 °	
			-121.523726 °	-121.523726 °	
DWR ID	DWR_RD0150_02_s_2018_109				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	<b>5.33</b>	Rating **	M	Issue No.	<b>54</b>
LM End	<b>5.33</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.382072 °	38.382072 °	
			-121.523220 °	-121.523220 °	
DWR ID	DWR_RD0150_02_f_2014_54				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0150\_16\_54\_20180910\_00036.jpg



View of slope instability on the waterside of the levee looking towards the toe. Fall 2014

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	7.06	Rating **	M	Issue No.	71
LM End	7.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.404338 °	38.404338 °
				-121.516625 °	-121.516625 °
DWR ID	DWR_RD0150_02_s_2018_71				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	7.17	Rating **	A/W	Issue No.	53
LM End	7.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.405933 °	38.406722 °
				-121.517197 °	-121.517617 °
DWR ID	DWR_RD0150_02_f _ 2017_53				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 311 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:289					
Site Designation:LMA-115					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. 2 scarps 6 ft deep and about 15 ft long each within site and 6 ft from crown, otherwise erosion was pretty small. Rip rap on 3/4 of slope here, but not full coverage. Area of concern because deeper scarps only extended a short distance.					



View of waterside slope with some revetment. Fall 2018

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0150 Merrit Island

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
N/A : Not Applicable	N : Not Inspected/Rated	Ob : Design & System Obsolescence
WS : Water Side	M : Minimally Acceptable	En : Enforcement
CR : Crown	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	7.17	Rating **	A/W	Issue No.	53 (cont)	
LM End	7.23	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.405933 °	38.406722 °	
				-121.517197 °	-121.517617 °	
DWR ID	DWR_RD0150_02_f_2017_53					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:The flood damage consists of a waterside erosion approximately 311 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.						
Site ID No:289						
Site Designation:LMA-115						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/17/2017						
Notes: Crown is a paved road. 2 scarps 6 ft deep and about 15 ft long each within site and 6 ft from crown, otherwise erosion was pretty small. Rip rap on 3/4 of slope here, but not full coverage. Area of concern because deeper scarps only extended a short distance.						

Photo 4 of 4 : LEVAL\_FA\_2018\_289\_2168.jpg



LM Start	7.22	Rating **	M	Issue No.	32
LM End	7.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.406454 °	38.406454 °
				-121.517732 °	-121.517732 °
DWR ID	DWR_RD0150_02_s_2012_32				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>0.01</b>	Rating **	A/W	Issue No.	<b>22</b>
LM End	<b>7.80</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey, DRAFT		38.332735°	38.406923°	
			-121.583625°	-121.542640°	
DWR ID	DWR_RD0150_03_f_2018_22				
Comment Code					
Inspector Comment					
2017 Site ID: ELK 0.2 L Status: Eroding 2017 Field Notes: Fresh erosion; site continues to worsen. Site History: 1997 - Most of lower Elk Slough contains high near vertical banks, with erosion into the levee slope. Channel almost appears incised. 2002 - Sites where the levee slope is near vertical and severely eroding. It could fail catastrophically. 2004 - Looks bad in terms of vertical slopes and fallen trees. 2005 - Banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2006 - Both banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2010 - The entire reach is in poor condition, with severely eroding near vertical slopes, needs a regional repair. 2011 - Channel banks are still oversteepened with erosion continuing. 2012 - New cracks and animal holes observed.					

No Photos

LM Start	<b>0.11</b>	Rating **	C	Issue No.	<b>43</b>
LM End	<b>0.20</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.334220°	38.335449°	
			-121.583381°	-121.582863°	
DWR ID	DWR_RD0150_03_s_2018_43				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	0.11	Rating **	M	Issue No.	936
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.334233 °	38.334233 °
				-121.583414 °	-121.583414 °
DWR ID	DWR_RD0150_03_s _ 2012_936				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.81	Rating **	C	Issue No.	44
LM End	0.83	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.343925 °	38.344189 °
				-121.580297 °	-121.580231 °
DWR ID	DWR_RD0150_03_s _ 2018_44				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

LM Start	0.92	Rating **	M	Issue No.	5
LM End	0.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.345493 °	38.345493 °
				-121.579682 °	-121.579682 °
DWR ID	DWR_RD0150_03_s _ 2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Maintain visibility of levee slopes.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	1.42	Rating **	C	Issue No.	33
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.348142°	38.348411°
				-121.572319°	-121.572339°
DWR ID	DWR_RD0150_03_f_2017_33				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 98 feet long. See attached pages for photos.					
Site ID No:293					
Site Designation:LMA-119					
Repair Type: Erosion					
Rating:Critical					
Field Date:7/19/2017					
Notes: Site is serious because lower 2/3 of slope is near vertical and site is located on a bend. Fall 2018 DWR Inspector: LMA repaired slope.					

No Photos

LM Start	1.54	Rating **	C	Issue No.	77
LM End	1.54	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.349808 °	38.349808 °
				-121.572641 °	-121.572641 °
DWR ID	DWR_RD0150_03_s_2018_77				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	1.83	Rating **	M	Issue No.	85
LM End	1.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.353761 °	38.353761 °
				-121.572390 °	-121.572390 °
DWR ID	DWR_RD0150_03_s_2016_85				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_85\_20180910\_00080.jpg



View of broken tree trunk on the waterside slope of the levee.

LM Start	2.29	Rating **	A/W	Issue No.	37
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.354103 °	38.354211 °
				-121.564850 °	-121.564631 °
DWR ID	DWR_RD0150_03_f_2017_37				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 75 feet long. See attached pages for photos.					
Site ID No:294					
Site Designation:LMA-120					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/19/2017					
Notes: Area of concern because erosion is not too far into the levee prism and looks similar to the rest of the levee outside of the site.					
Crown is a paved road.					

Photo 1 of 4 : FA\_2018\_RD0150\_17\_37\_20181115\_00187.jpg



View of slope damage near fallen tree. Fall 2018

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.29	Rating **	A/W	Issue No.	37 (cont)
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.354103°	38.354211°
				-121.564850°	-121.564631°
DWR ID	DWR_RD0150_03_f_2017_37				

**Comment Code**

**Inspector Comment**

**Levee Evaluation Comments**

Description: Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 75 feet long. See attached pages for photos.

Site ID No: 294

Site Designation: LMA-120

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/19/2017

Notes: Area of concern because erosion is not too far into the levee prism and looks similar to the rest of the levee outside of the site. Crown is a paved road.

LM Start	<b>2.29</b>	Rating **	A/W	Issue No.	<b>37 (cont)</b>
LM End	<b>2.30</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : LEVAL\_FA\_2018\_294\_2272.jpg



Photo 3 of 4 : LEVAL\_FA\_2018\_294\_2275.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.29	Rating **	A/W	Issue No.	37 (cont)
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.354103°	38.354211°
				-121.564850°	-121.564631°
DWR ID	DWR_RD0150_03_f_2017_37				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 75 feet long. See attached pages for photos.					
Site ID No:294					
Site Designation:LMA-120					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/19/2017					
Notes: Area of concern because erosion is not too far into the levee prism and looks similar to the rest of the levee outside of the site.					
Crown is a paved road.					

Photo 4 of 4 : LEVAL\_FA\_2018\_294\_2277.jpg



LM Start	2.31	Rating **	C	Issue No.	78
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.354286 °	38.354286 °
				-121.564494 °	-121.564494 °
DWR ID	DWR_RD0150_03_s_2012_78				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
New tree was planted on the landside slope. Remove trees smaller than 4-inches in diameter at chest height.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>2.51</b>	Rating **	C	Issue No.	<b>38</b>
LM End	<b>2.52</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.356231 °	38.356422 °	
			-121.561917 °	-121.561783 °	
DWR ID	DWR_RD0150_03_f_2017_38				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos.</p> <p>Site ID No: 296</p> <p>Site Designation: LMA-122</p> <p>Repair Type: Stability</p> <p>Rating: Critical</p> <p>Field Date: 7/19/2017</p> <p>Notes: Crown is a paved road. Serious because erosion cuts into levee prism significantly (lower 2/3 - 1/2 is near vertical) and longitudinal cracking observed above erosion, but damage does not extend into crown. Fall 2018 DWR Inspector: LMA repaired erosion and cracking damage to slope.</p>					

No Photos

LM Start	<b>2.52</b>	Rating **	C	Issue No.	<b>54</b>
LM End	<b>2.52</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.356398 °	38.356398 °	
			-121.561834 °	-121.561834 °	
DWR ID	DWR_RD0150_03_s_2017_54				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
LMA repaired erosion damage.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.72	Rating **	A/W	Issue No.	42
LM End	2.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.359256 °	38.359461 °
				-121.561239 °	-121.561275 °
DWR ID	DWR_RD0150_03_f_2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 75 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos					
Site ID No:297					
Site Designation:LMA-123					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Crown is a paved road. 20 ft of cracking observed maximum within the site, but lower 1/4 of slope is near vertical. Lower priority because it is not too much worse than the surrounding levees.					

Photo 1 of 3 : LEVAL\_FA\_2018\_297\_1928.jpg



LM Start	<b>2.72</b>	Rating **	A/W	Issue No.	<b>42 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL\_FA\_2018\_297\_1931.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

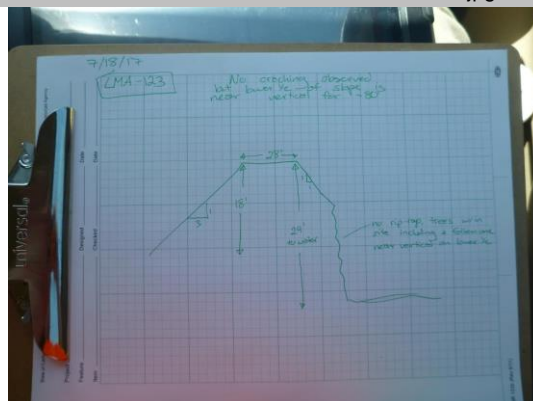
**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>2.72</b>	Rating **	A/W	Issue No.	<b>42 (cont)</b>							
LM End	<b>2.73</b>	Issue Type +	Ma	Location *	WS							
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.359256°	38.359461°								
			-121.561239°	-121.561275°								
DWR ID	DWR_RD0150_03_f_2017_42											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 75 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos</p> <p>Site ID No: 297</p> <p>Site Designation: LMA-123</p> <p>Repair Type: Stability</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/18/2017</p> <p>Notes: Crown is a paved road. 20 ft of cracking observed maximum within the site, but lower 1/4 of slope is near vertical. Lower priority because it is not too much worse than the surrounding levees.</p>												

Photo 3 of 3 : LEVAL\_FA\_2018\_297\_1933.jpg



LM Start	<b>2.74</b>	Rating **	A/W	Issue No.	<b>45</b>							
LM End	<b>2.76</b>	Issue Type +	Ma	Location *	WS							
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.359594°	38.359808°								
			-121.561308°	-121.561369°								
DWR ID	DWR_RD0150_03_f_2017_45											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos.</p> <p>Site ID No: 298</p> <p>Site Designation: LMA-124</p> <p>Repair Type: Stability</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/18/2017</p> <p>Notes: No cracking observed, but there is runoff erosion along the entire WS slope here. Crown is a paved road. Area of concern because erosion was caused by runoff and was less severe than other sites along Elk Slough.</p>												

Photo 1 of 3 : LEVAL\_FA\_2018\_298\_1924.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0150 Merrit Island

A photograph showing a gravelly embankment next to a road. The embankment is composed of loose gravel and soil, with some exposed tree roots visible. The road is paved and curves to the left. The background is filled with dense green trees and foliage.

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
N/A : Not Applicable	N : Not Inspected/Rated	Ob : Design & System Obsolescence
WS : Water Side	M : Minimally Acceptable	En : Enforcement
CR : Crown	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.75	Rating **	A/W	Issue No.	62
LM End	2.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.359693°	38.359693°
				-121.561354°	-121.561354°
DWR ID	DWR_RD0150_03_s_2017_62				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Run-off due to rain.					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_62\_20180910\_00054.jpg



View of slope instability on the waterside slope of the levee looking downstream. Spring 2017

LM Start	2.80	Rating **	A/W	Issue No.	53
LM End	2.81	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.360367 °	38.360544 °
				-121.561592 °	-121.561683 °
DWR ID	DWR_RD0150_03_f _ 2017_53				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 70 feet long and 12 feet down from the levee crest. See attached pages for photos					
Site ID No:299					
Site Designation:LMA-125					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Crown is a paved road. Cracking on upper 1/3 of slope. Lower 1/2 of slope is near vertical. Area of concern because erosion is less severe than other sites along Elk Slough.					

Photo 1 of 3 : LEVAL\_FA\_2018\_299\_2105.jpg



\* Location  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

\*\* Rating  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

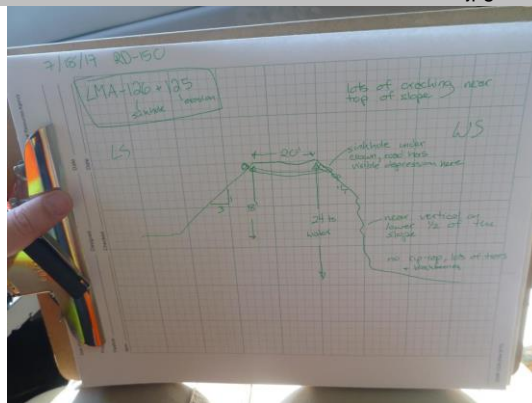
LM Start	2.80	Rating **	A/W	Issue No.	53 (cont)
LM End	2.81	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.360367°	38.360544°
				-121.561592°	-121.561683°
DWR ID	DWR_RD0150_03_f_2017_53				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 70 feet long and 12 feet down from the levee crest. See attached pages for photos					
Site ID No:299					
Site Designation:LMA-125					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Crown is a paved road. Cracking on upper 1/3 of slope. Lower 1/2 of slope is near vertical. Area of concern because erosion is less severe than other sites along Elk Slough.					

Photo 2 of 3 : LEVAL\_FA\_2018\_299\_2106.jpg



LM Start	<b>2.80</b>	Rating **	A/W	Issue No.	<b>53 (cont)</b>
LM End	<b>2.81</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : LEVAL\_FA\_2018\_299\_2108.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>2.80</b>	Rating **	C	Issue No.	<b>79</b>
LM End	<b>2.80</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.360372°	38.360397°	
			-121.561594°	-121.561606°	
DWR ID	DWR_RD0150_03_f_2017_79				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: On 7 February 2017, a sinkhole 3 feet wide by 3 feet deep was observed at the levee crest. See attached pages for photos. Site ID No: 300 Site Designation: LMA-126 Repair Type: Stability Rating: Area of Concern Field Date: 7/18/2017 Notes: Sinkhole is present on both sides of crown and crown has a dip of about 1 ft on the WS half. Crown is a paved road here. Sink hole appears to be caused by a rodent hole so it was rated lower priority because it is a general maintenance issue. See LMA-125 for cross section.					

No Photos

LM Start	<b>2.80</b>	Rating **	A/W	Issue No.	<b>35</b>
LM End	<b>2.80</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.360432°	38.360432°	
			-121.561644°	-121.561644°	
DWR ID	DWR_RD0150_03_s_2013_35				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_RD0150\_17\_35\_20181115\_00190.jpg



View of erosion at top of slope. Fall 2018

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.95	Rating **	M	Issue No.	86
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.362431 °	38.362431 °
				-121.562265 °	-121.562265 °
DWR ID	DWR_RD0150_03_s_2018_86				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove downed tree on waterside slope.					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_86\_20180910\_00081.jpg



Downed tree waterside looking southwest. Spring 2018

LM Start	3.34	Rating **	M	Issue No.	27
LM End	3.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.363147 °	38.363147 °
				-121.556190 °	-121.556190 °
DWR ID	DWR_RD0150_03_s_2012_27				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on the waterside toe of the levee.					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_27\_20180910\_00009.jpg



View of downed tree on the waterside slope looking upstream.

LM Start	3.36	Rating **	M	Issue No.	102
LM End	3.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363254 °	38.363254 °
				-121.555889 °	-121.555889 °
DWR ID	DWR_RD0150_03_s_2018_102				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.37	Rating **	A/W	Issue No.	76
LM End	3.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			38.363380 °	38.364325 °
				-121.555715 °	-121.555330 °
DWR ID	DWR_RD0150_03_s_2017_76				
Comment Code					
Inspector Comment					
LMA or the pipe owner has placed new riprap on the waterside slope.					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_76\_20180910\_00067.jpg



View of the new riprap on the waterside slope of the levee looking downstream. Spring 2017

LM Start	3.39	Rating **	U	Issue No.	115	
LM End	3.39	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.363540 °		38.363540 °
				-121.555554 °		-121.555554 °
DWR ID	DWR_RD0150_03_f_2013_115					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion (ditch) was found on the landside toe of the levee.						

Photo 1 of 3 : FA\_2018\_RD0150\_17\_115\_20180910\_00111.jpg



View of the ditch on the landside toe of the levee. Fall 2016

LM Start	<b>3.39</b>	Rating **	U	Issue No.	<b>115 (cont)</b>
LM End	<b>3.39</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA\_2018\_RD0150\_17\_115\_20180910\_00112.jpg



View of the ditch on the landside toe of the levee during fall 2015 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.39	Rating **	U	Issue No.	115 (cont)	
LM End	3.39	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.363540 °	38.363540 °	
				-121.555554 °	-121.555554 °	
DWR ID	DWR_RD0150_03_f_2013_115					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion (ditch) was found on the landside toe of the levee.						

Photo 3 of 3 : FA\_2018\_RD0150\_17\_115\_20180910\_00113.jpg



A drainage ditch with depth of 4 feet and width of 15 feet was found on the landside toe of the levee. The picture was taken from the landside slope looking upstream during the fall 2013 inspection.

LM Start	3.45	Rating **	A/W	Issue No.	91
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.364450 °	38.364567 °
				-121.555331 °	-121.555333 °
DWR ID	DWR_RD0150_03_f_2017_91				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 January 2017 and 7 February 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 43 feet long and 11 feet down from the levee crest. See attached pages for photos.					
Site ID No:302					
Site Designation:LMA-128					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Erosion on lower 2/3 of slope. Crown is a paved road. Area of concern because erosion was not as severe and there was lots of vegetation on the lower slope indicating damage may be older. WS slope has been rocked just downstream of this site.					

Photo 1 of 3 : LEVAL\_FA\_2018\_302\_2086.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.45	Rating **	A/W	Issue No.	91 (cont)	
LM End	3.46	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.364450 °		38.364567 °
				-121.555331 °		-121.555333 °
DWR ID	DWR_RD0150_03_f_2017_91					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:On 11 January 2017 and 7 February 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 43 feet long and 11 feet down from the levee crest. See attached pages for photos.						
Site ID No:302						
Site Designation:LMA-128						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Erosion on lower 2/3 of slope. Crown is a paved road. Area of concern because erosion was not as severe and there was lots of vegetation on the lower slope indicating damage may be older. WS slope has been rocked just downstream of this site.						

Photo 2 of 3 : LEVAL\_FA\_2018\_302\_2088.jpg



LM Start	<b>3.45</b>	Rating **	A/W	Issue No.	<b>91 (cont)</b>
LM End	<b>3.46</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : LEVAL\_FA\_2018\_302\_2089.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0150 Merrit Island

No Photos

Photo 1 of 1 : FA\_2018\_RD0150\_17\_93\_20180910\_00090.jpg



Erosion was found on the waterside toe of the levee. Spring 2016

Photo 1 of 1 : FA\_2018\_RD0150\_17\_126\_20180910\_00130.jpg



View of a fallen tree on the waterside toe of the levee. Fall 2017

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>4.39</b>	Rating **	A/W	Issue No.	<b>98</b>
LM End	<b>4.43</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.374278°	38.374278°	
			-121.549167°	-121.548511°	
DWR ID	DWR_RD0150_03_f_2017_98				

**Comment Code**

**Inspector Comment**

**Levee Evaluation Comments**

Description: Between 11 and 19 January 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long, 7 feet below the levee crest, and includes a fallen tree and exposed root ball in the levee slope. See attached pages for photos.

Site ID No: 304

Site Designation: LMA-130

Repair Type: Erosion

Rating: Serious

Field Date: 7/18/2017

Notes: Crown is a paved road. Near vertical on lower 1/2 of slope oncluding a fallen tree with exposed root ball. Serious because sloughing cuts into already oversteepened prism significantly and visible longitudinal cracking near crown.

LM Start	<b>4.39</b>	Rating **	A/W	Issue No.	<b>98 (cont)</b>
LM End	<b>4.43</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : LEVAL\_FA\_2018\_304\_2072.jpg



Photo 2 of 3 : LEVAL\_FA\_2018\_304\_2075.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>4.39</b>	Rating **	A/W	Issue No.	<b>98 (cont)</b>							
LM End	<b>4.43</b>	Issue Type +	Ma	Location *	WS							
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.374278 °	38.374278 °								
			-121.549167 °	-121.548511 °								
DWR ID	DWR_RD0150_03_f_2017_98											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: Between 11 and 19 January 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long, 7 feet below the levee crest, and includes a fallen tree and exposed root ball in the levee slope. See attached pages for photos.</p> <p>Site ID No: 304</p> <p>Site Designation: LMA-130</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 7/18/2017</p> <p>Notes: Crown is a paved road. Near vertical on lower 1/2 of slope oncluding a fallen tree with exposed root ball. Serious because sloughing cuts into already oversteepened prism significantly and visible longitudinal cracking near crown.</p>												

Photo 3 of 3 : LEVAL\_FA\_2018\_304\_2078.jpg



LM Start	<b>4.47</b>	Rating **	A/W	Issue No.	<b>108</b>							
LM End	<b>4.49</b>	Issue Type +	Ma	Location *	WS							
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.374314 °	38.374344 °								
			-121.547753 °	-121.547447 °								
DWR ID	DWR_RD0150_03_f_2017_108											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: Between 11 January 2017 and 7 February 2017, instability, cracking, and erosion of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long. See attached pages for photos.</p> <p>Site ID No: 305</p> <p>Site Designation: LMA-131</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 7/18/2017</p> <p>Notes: Crown is a paved road. Near vertical sloughing on the lower 2/3 of the prism. House and ramp/driveway on the LS. Serious because sloughing cuts into already oversteepened prism significantly.</p>												

Photo 1 of 2 : LEVAL\_FA\_2018\_305\_2066.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.47	Rating **	A/W	Issue No.	108 (cont)	
LM End	4.49	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.374314 °	38.374344 °	
				-121.547753 °	-121.547447 °	
DWR ID	DWR_RD0150_03_f _ 2017_108					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Between 11 January 2017 and 7 February 2017, instability, cracking, and erosion of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long. See attached pages for photos.						
Site ID No:305						
Site Designation:LMA-131						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/18/2017						
Notes: Crown is a paved road. Near vertical sloughing on the lower 2/3 of the prism. House and ramp/driveway on the LS. Serious because sloughing cuts into already oversteepened prism significantly.						

Photo 2 of 2 : LEVAL\_FA\_2018\_305\_2067.jpg



LM Start	4.79	Rating **	M	Issue No.	101
LM End	4.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.376562 °	38.376562 °
				-121.543016 °	-121.543016 °
DWR ID	DWR_RD0150_03_s_2017_101				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_101\_20180910\_00098.jpg



View of an erosion on the waterside toe of the levee. Spring 2017

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.99	Rating **	M	Issue No.	36
LM End	4.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.378771 °	38.378771 °
				-121.540538 °	-121.540538 °
DWR ID	DWR_RD0150_03_f_2012_36				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_RD0150\_17\_36\_20180910\_00020.jpg



View of slope instability on the waterside shoulder of the levee during fall 2015 inspection.

LM Start	<b>4.99</b>	Rating **	M	Issue No.	<b>36 (cont)</b>
LM End	<b>4.99</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2018\_RD0150\_17\_36\_20180910\_00021.jpg



Slope instability was found on the waterside of the levee looking upstream.

LM Start	5.00	Rating **	M	Issue No.	124
LM End	5.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.378888 °	38.378888 °
				-121.540486 °	-121.540486 °
DWR ID	DWR_RD0150_03_s_2018_124				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>5.06</b>	Rating **	A/W	Issue No.	<b>959</b>
LM End	<b>5.06</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.379697°	38.379697°	
			-121.540070°	-121.540070°	
DWR ID	22446				

**Comment Code**

**Inspector Comment**

FS\_ID:49386  
DS\_ID:22446  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/2014 Recordation from permit files 13736 match photos and approximate location of UCIP confirmed crossing. 8/2013- a smaller pump on WS steel deck and was running.- seems 30-inch steel pipe goes through the levee.- GI electric conduit on WS and power pole on LS.  
FIELD\_STRUCT\_DESC: 24-inch steel drainage discharge pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Pump and gate valve at the landside (LS) toe. (Plans to install a 24-inch discharge pipeline through the levee authorized under Permit No. 13736, 1983 - Reclamation District No. 150 [RD0150]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.15), 30-inch pipe referenced, invert elevation 14.5 feet below the crown].  
FS Date: 8/23/2013

LM Start	<b>5.06</b>	Rating **	A/W	Issue No.	<b>959 (cont)</b>
LM End	<b>5.06</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_49386\_63902.jpg



WS view: pipe, steel deck, pressure tank, electric control box on stream bank.

Photo 2 of 3 : UCIP\_FA\_2018\_49386\_63901.jpg



WS view: a smaller pump on steel deck. It was working during the survey.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.06	Rating **	A/W	Issue No.	959 (cont)	
LM End	5.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.379697°	38.379697°	
				-121.540070°	-121.540070°	
DWR ID	22446					
Comment Code						
Inspector Comment						
FS_ID:49386 DS_ID:22446 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2014 Recordation from permit files 13736 match photos and approximate location of UCIP confirmed crossing.8/2013- a smaller pump on WS steel deck and was running.- seems 30-inch steel pipe goes through the levee.- GI electric conduit on WS and power pole on LS. FIELD_STRUCT_DESC: 24-inch steel drainage discharge pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Pump and gate valve at the landside (LS) toe. (Plans to install a 24-inch discharge pipeline through the levee authorized under Permit No. 13736, 1983 - Reclamation District No. 150 [RD0150]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.15), 30-inch pipe referenced, invert elevation 14.5 feet below the crown]. FS Date: 8/23/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_49386\_63900.jpg



WS view: siphon breaker on pipe in steel deck on stream bank.

LM Start	5.14	Rating **	M	Issue No.	941
LM End	5.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.380779 °	38.380779 °
				-121.540264 °	-121.540264 °
DWR ID	DWR_RD0150_03_s_2012_941				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
There is a significant difference in the crown roadway elevation as it transitions from the paved roadway to the gravel access road.					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_941\_20180910\_00139.jpg



View of varying elevations in the crown of the levee at the transition from county road to access road.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.15	Rating **	A/W	Issue No.	111
LM End	5.15	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.380906 °	38.380928 °
				-121.540344 °	-121.540364 °
DWR ID	DWR_RD0150_03_f_2017_111				

**Comment Code**

**Inspector Comment**

**Levee Evaluation Comments**

Description: On 19 January 2017, two large trees were observed to have fallen into the water exposing the root ball on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.

Site ID No: 309

Site Designation: LMA-135

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/18/2017

Notes: 2 oak trees fell over at the WS toe and took root balls out of the lower slope about 5 ft deep just above the water line. Area of concern because damage is only on the lower slope near the water line.

LM Start	<b>5.15</b>	Rating **	A/W	Issue No.	<b>111 (cont)</b>
LM End	<b>5.15</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : LEVAL\_FA\_2018\_309\_2036.jpg



Photo 2 of 3 : LEVAL\_FA\_2018\_309\_2038.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.15	Rating **	A/W	Issue No.	111 (cont)	
LM End	5.15	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.380906 °	38.380928 °	
				-121.540344 °	-121.540364 °	
DWR ID	DWR_RD0150_03_f_2017_111					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:On 19 January 2017, two large trees were observed to have fallen into the water exposing the root ball on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.						
Site ID No:309						
Site Designation:LMA-135						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: 2 oak trees fell over at the WS toe and took root balls out of the lower slope about 5 ft deep just above the water line. Area of concern because damage is only on the lower slope near the water line.						

Photo 3 of 3 : LEVAL\_FA\_2018\_309\_2039.jpg



LM Start	5.15	Rating **	A/W	Issue No.	72
LM End	5.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.380940 °	38.380940 °
				-121.540384 °	-121.540384 °
DWR ID	DWR_RD0150_03_f_2016_72				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree stump and broken tree were found on the waterside toe.					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_72\_20180910\_00064.jpg



View of tree stump and broken tree on the waterside toe of the levee.  
Fall 2016

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.19	Rating **	M	Issue No.	125
LM End	5.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.381352 °	38.381352 °
				-121.540797 °	-121.540797 °
DWR ID	DWR_RD0150_03_s_2018_125				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	5.32	Rating **	M	Issue No.	96
LM End	5.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.381843 °	38.381843 °
				-121.543117 °	-121.543117 °
DWR ID	DWR_RD0150_03_s_2016_96				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree/root damaged levee slope and needs to be removed.					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_96\_20180910\_00093.jpg



Broken tree roots and tree trunks were found on the waterside toe of the levee. Spring 2016

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.40	Rating **	A/W	Issue No.	114
LM End	5.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.382169 °	38.382206 °
				-121.544597 °	-121.544731 °
DWR ID	DWR_RD0150_03_f_2017_114				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Cracking and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 40 feet long. See attached pages for photos.					
Site ID No:310					
Site Designation:LMA-136					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Large oak tree fell over here and took a root ball with it. At least 15 ft wide by 5ft deep soil missing, 5 ft from crown. Longitudinal cracks for 40 ft along crown hinge. Serious because prism is impacted and cracking is visible beyond the damaged area.					

Photo 1 of 3 : LEVAL\_FA\_2018\_310\_2188.jpg



LM Start	<b>5.40</b>	Rating **	A/W	Issue No.	<b>114 (cont)</b>
LM End	<b>5.41</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL\_FA\_2018\_310\_2190.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

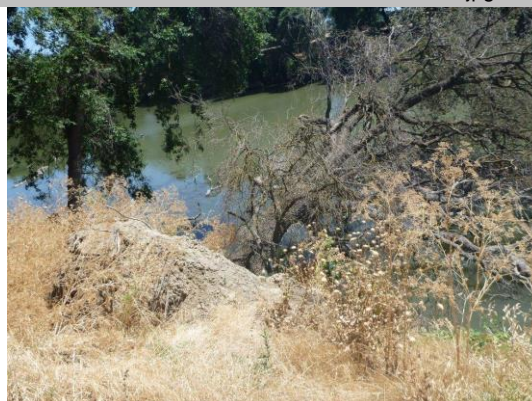
**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.40	Rating **	A/W	Issue No.	114 (cont)
LM End	5.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.382169 °	38.382206 °
				-121.544597 °	-121.544731 °
DWR ID	DWR_RD0150_03_f_2017_114				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Cracking and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 40 feet long. See attached pages for photos.					
Site ID No:310					
Site Designation:LMA-136					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Large oak tree fell over here and took a root ball with it. At least 15 ft wide by 5ft deep soil missing, 5 ft from crown. Longitudinal cracks for 40 ft along crown hinge. Serious because prism is impacted and cracking is visible beyond the damaged area.					

Photo 3 of 3 : LEVAL\_FA\_2018\_310\_2191.jpg



LM Start	5.49	Rating **	N	Issue No.	74
LM End	5.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383051 °	38.383051 °
				-121.545735 °	-121.545735 °
DWR ID	DWR_RD0150_03_f_2016_74				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Tree stump and broken tree on the waterside shoulder of the levee need to be removed.					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_74\_20180910\_00066.jpg



View of tree trunks on the waterside shoulder of the levee. Fall 2016

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>6.79</b>	Rating **	C	Issue No.	<b>119</b>
LM End	<b>6.80</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.395833°	38.395850°	
			-121.537150°	-121.537083°	
DWR ID	DWR_RD0150_03_f_2017_119				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: On 10 February 2017, instability, cracking, and sloughing of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 20 feet long. See attached pages for photos. Site ID No: 312 Site Designation: LMA-139 Repair Type: Stability Rating: Critical Field Date: 7/19/2017 Notes: Crown is paved. Serious because erosion cuts into prism significantly, but not into crown. Worst damage is above a fallen tree, sloughing comes within 6 ft of crown here. Fall 2018 DWR Inspector: LMA repaired slope damage.					

No Photos

LM Start	<b>6.80</b>	Rating **	C	Issue No.	<b>107</b>
LM End	<b>6.80</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.395893°	38.395893°	
			-121.537041°	-121.537041°	
DWR ID	DWR_RD0150_03_s_2018_107				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	<b>6.86</b>	Rating **	C	Issue No.	<b>120</b>
LM End	<b>6.87</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.396233 °	38.396294 °	
			-121.536064 °	-121.535947 °	
DWR ID	DWR_RD0150_03_f_2017_120				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: On 10 February 2017, instability, cracking, and sloughing of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 40 feet long. See attached pages for photos.</p> <p>Site ID No: 313</p> <p>Site Designation: LMA-140</p> <p>Repair Type: Stability</p> <p>Rating: Critical</p> <p>Field Date: 7/19/2017</p> <p>Notes: Crown is a paved road. Serious because of extensive cracking up to hinge, high traffic volume due to nearby winery and lower 2/3 - 1/2 of slope is near vertical. Fall 2018 DWR Inspector: LMA repaired cracking and erosion damage.</p>					

No Photos

LM Start	<b>6.95</b>	Rating **	A/W	Issue No.	<b>121</b>
LM End	<b>6.95</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.397197 °	38.397225 °	
			-121.535089 °	-121.535092 °	
DWR ID	DWR_RD0150_03_f_2017_121				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos.</p> <p>Site ID No: 314</p> <p>Site Designation: LMA-141</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/19/2017</p> <p>Notes: Area of concern because the site is so small and only looks slightly worse than the surrounding levee slope. Crown is a paved road.</p>					

Photo 1 of 3 : LEVAL\_FA\_2018\_314\_2322.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.95	Rating **	A/W	Issue No.	121 (cont)
LM End	6.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.397197°	38.397225°
				-121.535089°	-121.535092°
DWR ID	DWR_RD0150_03_f_2017_121				
Comment Code					

**Comment Code**

**Inspector Comment**

**Levee Evaluation Comments**

Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos. Site ID No: 314

Site Designation: LMA-141

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/19/2017

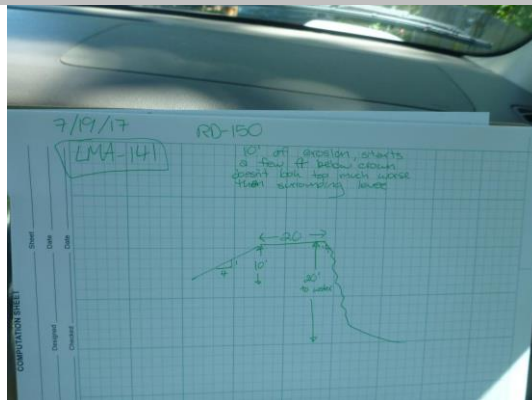
Notes: Area of concern because the site is so small and only looks slightly worse than the surrounding levee slope. Crown is a paved road.

LM Start	<b>6.95</b>	Rating **	A/W	Issue No.	<b>121 (cont)</b>
LM End	<b>6.95</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL\_FA\_2018\_314\_2323.jpg



Photo 3 of 3 : LEVAL\_FA\_2018\_314\_2324.jpg



**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

# Reclamation District No. 0150 Merrit Island



# Reclamation District No. 0150 Merrit Island

View of tree log on levee slope. Fall 2018

View of slope instability on the waterside of the levee looking upstream during spring 2015 inspection.

Slope instability was found on the waterside of the levee looking downstream.



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.05	Rating **	A/W	Issue No.	122
LM End	8.05	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.409228 °	38.409233 °
				-121.539389 °	-121.539356 °
DWR ID	DWR_RD0150_03_f_2017_122				
Comment Code					

**Comment Code**

**Inspector Comment**

**Levee Evaluation Comments**

Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos. Site ID No: 315

Site Designation: LMA-142

Repair Type: Erosion

Rating: Serious

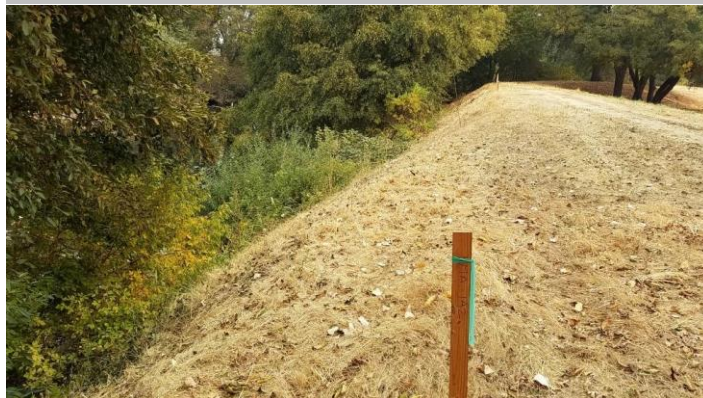
Field Date: 7/17/2017

Notes: The erosion extends along most of the slope. Nearby WS banks are all very steep (1:1 or less). Serious because the erosion extends along the entire slope, but not into the crown. Fall 2018 DWR

Inspector: Erosion not visible during this inspection but is marked.

LM Start	<b>8.05</b>	Rating **	A/W	Issue No.	<b>122 (cont)</b>
LM End	<b>8.05</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : FA\_2018\_RD0150\_17\_122\_20181115\_00204.jpg



View of waterside slope. Fall 2018

Photo 2 of 4 : LEVAL\_FA\_2018\_315\_2183.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.05	Rating **	A/W	Issue No.	122 (cont)
LM End	8.05	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.409228°	38.409233°
				-121.539389°	-121.539356°
DWR ID	DWR_RD0150_03_f_2017_122				
Comment Code					

Comment Code

Inspector Comment

**Levee Evaluation Comments**

Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos.  
Site ID No: 315

Site Designation: LMA-142

Repair Type: Erosion

Rating: Serious

Field Date: 7/17/2017

Notes: The erosion extends along most of the slope. Nearby WS banks are all very steep (1:1 or less). Serious because the erosion extends along the entire slope, but not into the crown. Fall 2018 DWR

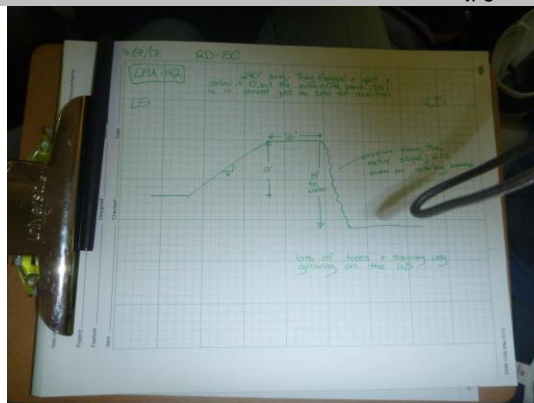
Inspector: Erosion not visible during this inspection but is marked.

LM Start	<b>8.05</b>	Rating **	A/W	Issue No.	<b>122 (cont)</b>
LM End	<b>8.05</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : LEVAL\_FA\_2018\_315\_2186.jpg



Photo 4 of 4 : LEVAL\_FA\_2018\_315\_2187.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.26	Rating **	M	Issue No.	65
LM End	8.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.408213 °	38.408213 °
				-121.535911 °	-121.535911 °
DWR ID	DWR_RD0150_03_f_2015_65				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_65\_20180910\_00056.jpg



View of erosion on the waterside of the levee. Fall 2015

LM Start	8.31	Rating **	M	Issue No.	66
LM End	8.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407960 °	38.407960 °
				-121.534898 °	-121.534898 °
DWR ID	DWR_RD0150_03_s_2012_66				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_66\_20180910\_00057.jpg



View of erosion on the waterside of the levee. Spring 2015

LM Start	8.33	Rating **	M	Issue No.	67
LM End	8.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407958 °	38.407958 °
				-121.534583 °	-121.534583 °
DWR ID	DWR_RD0150_03_s_2012_67				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_RD0150\_17\_67\_20180910\_00058.jpg



View of the erosion on the waterside shoulder looking upstream during spring 2014 inspection.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.33	Rating **	M	Issue No.	67 (cont)	
LM End	8.33	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.407958 °	38.407958 °	
				-121.534583 °	-121.534583 °	
DWR ID	DWR_RD0150_03_s_2012_67					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						

Photo 2 of 2 : FA\_2018\_RD0150\_17\_67\_20180910\_00059.jpg



Erosion was found on the waterside shoulder of the levee looking upstream. This picture was taken during fall 2012 inspection.

LM Start	8.35	Rating **	A/W	Issue No.	123
LM End	8.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.407983 °	38.407992 °
				-121.534322 °	-121.534289 °
DWR ID	DWR_RD0150_03_f _ 2017_123				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.					
Site ID No:316					
Site Designation:LMA-143					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: 3 large trees in/ajacent to site including a fallen tree in the middle of the erosion. Erosion on almost the whole slope, but doesn?t cut into the crown. Serious because erosion cuts into levee significantly here.					

Photo 1 of 3 : LEVAL\_FA\_2018\_316\_2180.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

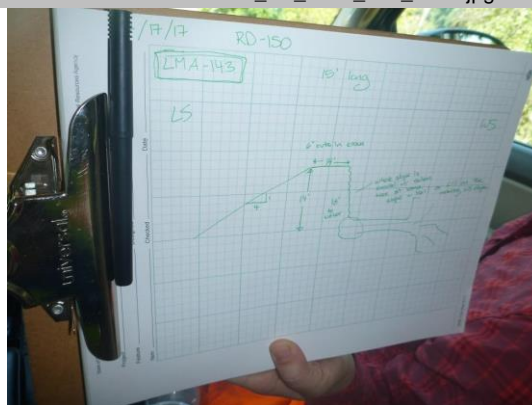
LM Start	<b>8.35</b>	Rating **	A/W	Issue No.	<b>123 (cont)</b>
LM End	<b>8.35</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.407983 °	38.407992 °	
			-121.534322 °	-121.534289 °	
DWR ID	DWR_RD0150_03_f_2017_123				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.</p> <p>Site ID No: 316</p> <p>Site Designation: LMA-143</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 7/17/2017</p> <p>Notes: 3 large trees in/adjacent to site including a fallen tree in the middle of the erosion. Erosion on almost the whole slope, but doesn't cut into the crown. Serious because erosion cuts into levee significantly here.</p>					

Photo 2 of 3 : LEVAL\_FA\_2018\_316\_2181.jpg



LM Start	<b>8.35</b>	Rating **	A/W	Issue No.	<b>123 (cont)</b>
LM End	<b>8.35</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2018\_316\_2182.jpg



<p><b>* Location</b></p> <p>LS : Land Side    N/A : Not Applicable</p> <p>WS : Water Side</p> <p>CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable                      N : Not Inspected/Rated</p> <p>M : Minimally Acceptable        C : Corrected</p> <p>U : Unacceptable                  A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency</p> <p>Ob : Design &amp; System Obsolescence</p> <p>En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.37	Rating **	C	Issue No.	89
LM End	8.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.408153 °	38.408153 °
				-121.533980 °	-121.533980 °
DWR ID	DWR_RD0150_03_s _ 2012_89				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	8.46	Rating **	N	Issue No.	90
LM End	8.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409220 °	38.409220 °
				-121.532801 °	-121.532801 °
DWR ID	DWR_RD0150_03_s _ 2012_90				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_90\_20180910\_00084.jpg



A tree stump was found on the landside of the levee looking upstream.

LM Start	8.50	Rating **	N	Issue No.	55
LM End	8.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409559 °	38.409559 °
				-121.532356 °	-121.532356 °
DWR ID	DWR_RD0150_03_s _ 2012_55				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0150\_17\_55\_20180910\_00046.jpg

A tree stump was found on the waterside of the levee looking upstream.  
Fall 2011**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



# Reclamation District No. 0150 Merrit Island

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